

Introduction / Comments:

Osmose Exterior 4 Corner/Ladder Rack Strobes Install For F-150

Note:

Read all instructions prior to installation. Review the Adrian Steel **GENERAL PRECAUTIONS PAGES (56638)** before attempting installation. Only personnel familiar with using electrical best practices should perform this install. Reference **ELECTRICAL BEST PRACTICES MANUAL (54479)** before attempting installation.



Osmose Exterior 4 Corner/Ladder Rack Strobes Install For F-150

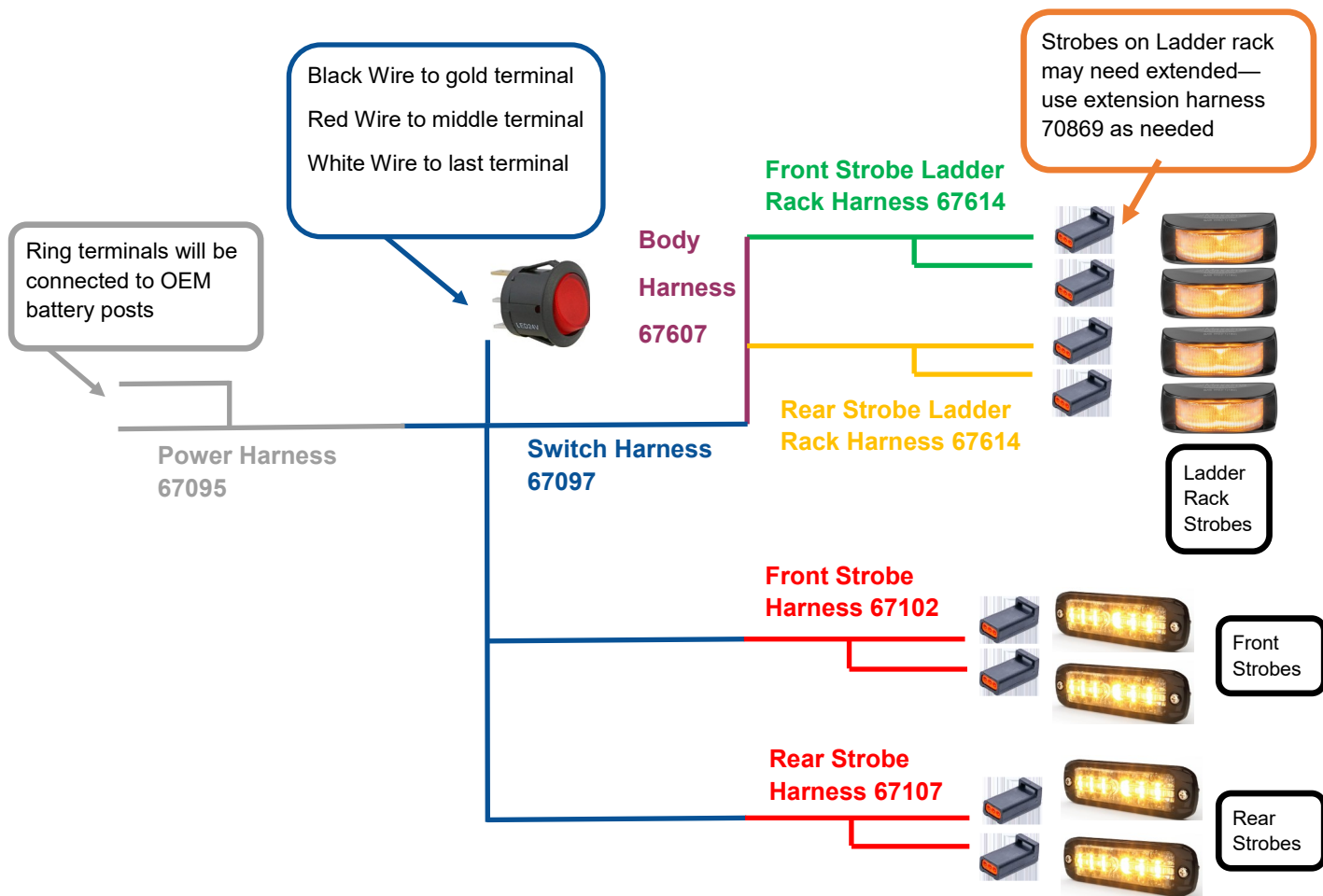
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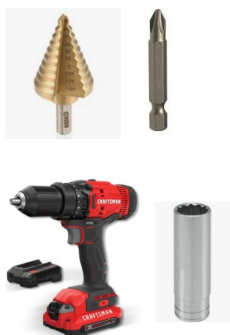
*****TORQUE*****

**Torque all strobe
fasteners to 10 in-lbs.
DO NOT OVER TIGHTEN
DO NOT MOUNT ON A
CURVED SURFACE**

Overall Harness Diagrams



Tools required:

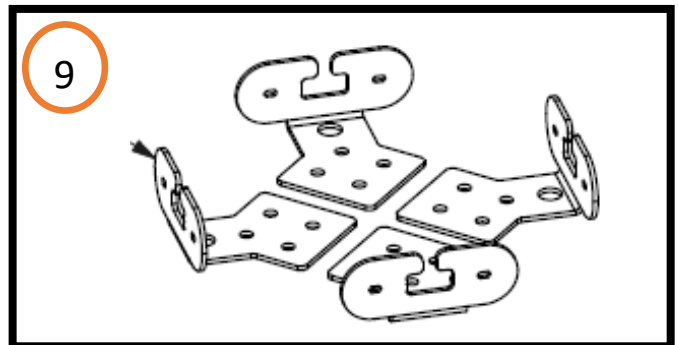


13 socket and 20 torx bit
Phillips bit and 5/16" step drill bit
Power drill and impact
Torque wrench

Components



	Part Number	Description
1	67095	Power Harness #4
2	67097	Switch Harness #1
3	67102	Front Strobe Harness #2
4	67107	Rear Strobe Harness #3
5	67607	Body Harness #3
6	67614 X 2	Strobe Harness for 58" Rack
7	78671	Maxxima Strobes
8	67686 or 67687	Strobes
9	76167	Strobe Bracket Kit



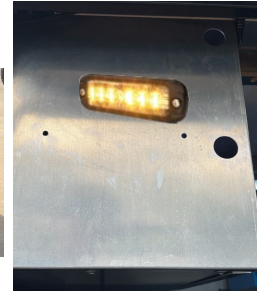
Harness pictures are for reference only.

Placements

Switch placements: Dash panel



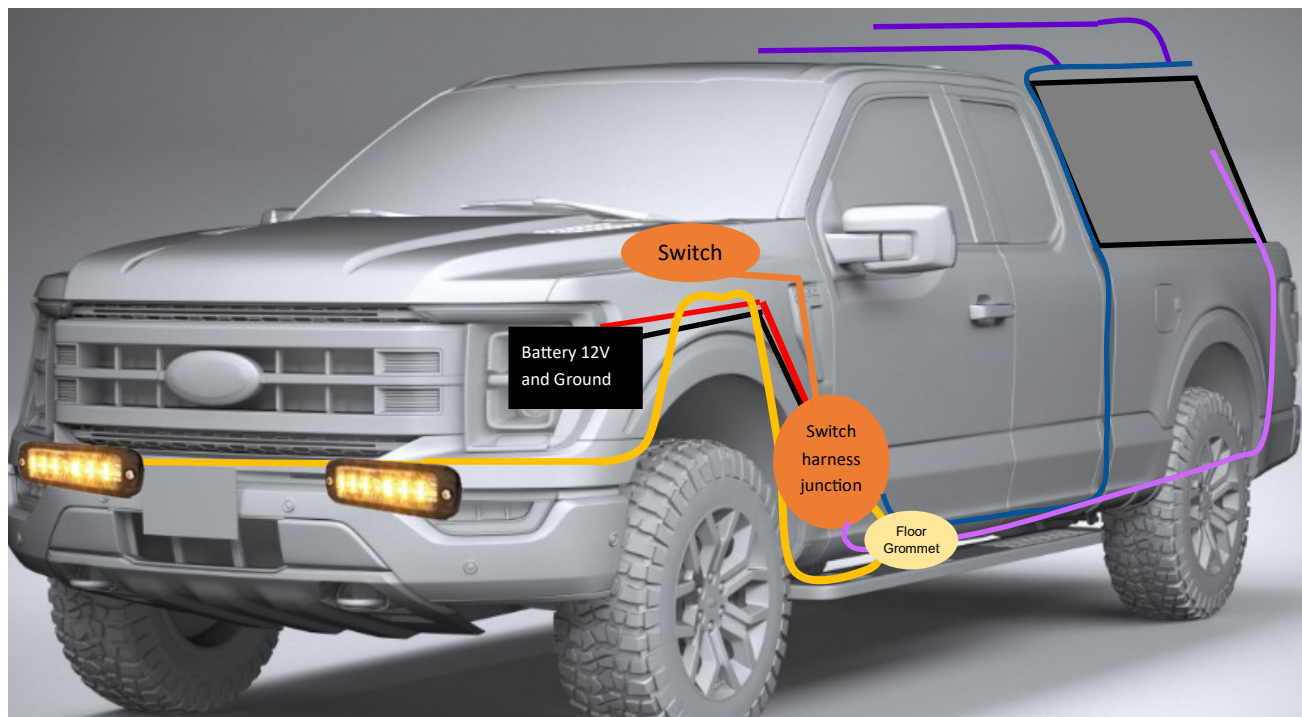
Front Strobes and Rear Strobes



Strobes: Ladder Rack Corners Front and Back

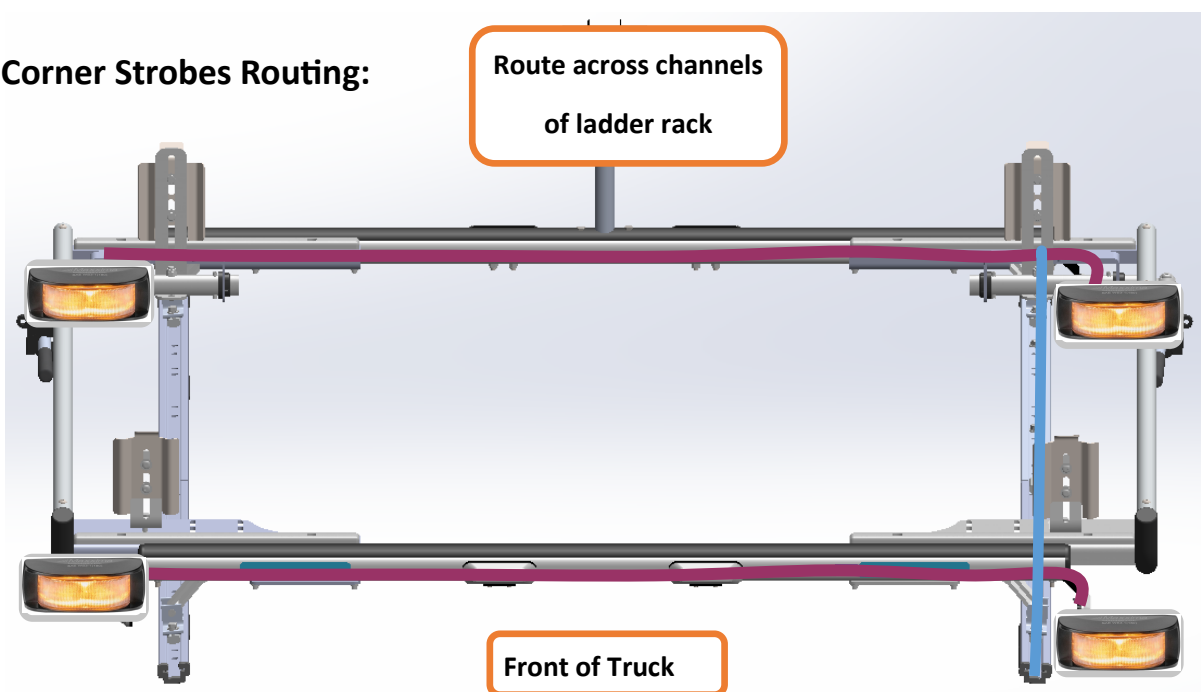


Routing Overview



Color	Key - Items
Yellow	Strobes - Front strobe harness #2
Pink	Strobes—Rear strobe harness #3
Red/Black	OEM Power harness: Battery to Switch harness
Orange	Switch Harness: Switch in dash panel
Blue	Body Harness To Ladder Rack
Purple	Ladder Rack Harnesses

Corner Strobes Routing:



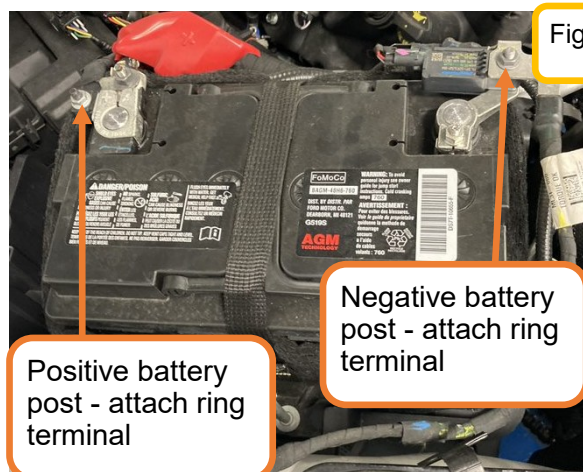


Figure 7.1

Step 1: Locate the power harness #67095.

Remove the fuse from the inline fuse holder until the end of the install

Locate the OEM battery under the hood.

Step 2: Remove the cover and attach the red wire with the ring terminal to the battery positive post.

Attach the black wire with the ring terminal to the battery negative post.

Figure 7.1.

Route the white connector end along the underside of the cab filter (see figure 7.2 red dotted line) to the firewall. Use edge-biters and zip ties to secure the wiring

Step 3: Locate the firewall grommet from underneath the kick panel inside the cab on the driver's side.

Figure 7.4.

Drill a hole (to fit the grommet on the power harness) to the right of BOTH OEM grommets.

Figure 7.5

****BE SURE TO CHECK THAT THE OPPOSING SIDE OF THE FIREWALL IS CLEAR BEFORE DRILLING.****

Route the white connector end through the firewall and insert the grommet on the sheet metal.



Figure 7.2



Figure 7.3



Figure 7.4

OEM Grommets

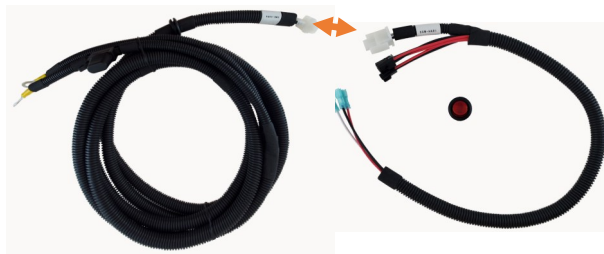


Figure 7.5

ASCO Harness/Grommet

Power harness

Switch Harness



Step 4: Locate the switch harness #67097

Connect the switch harness connector to the power harness in the kick panel area.

Disassemble the IP trim to gain access behind the dash. Figure 8.1 and 8.2.

Route the switch end of the switch harness up the dash and through the opening in the IP. Figure 8.3.

Secure to the OEM harnesses behind the IP.

Figure 8.1

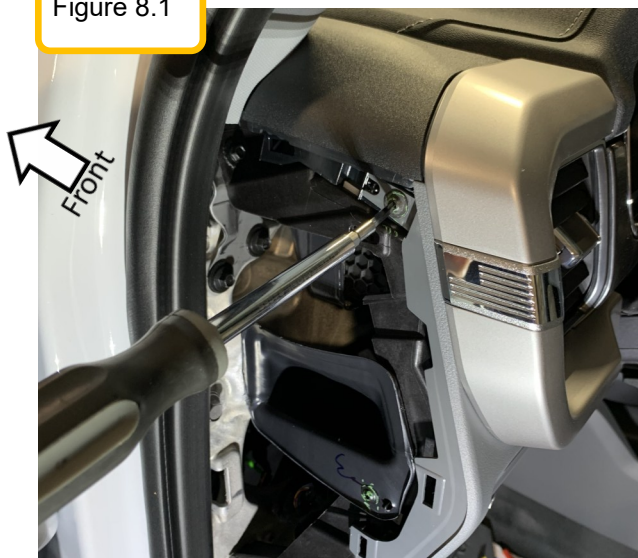


Figure 8.3

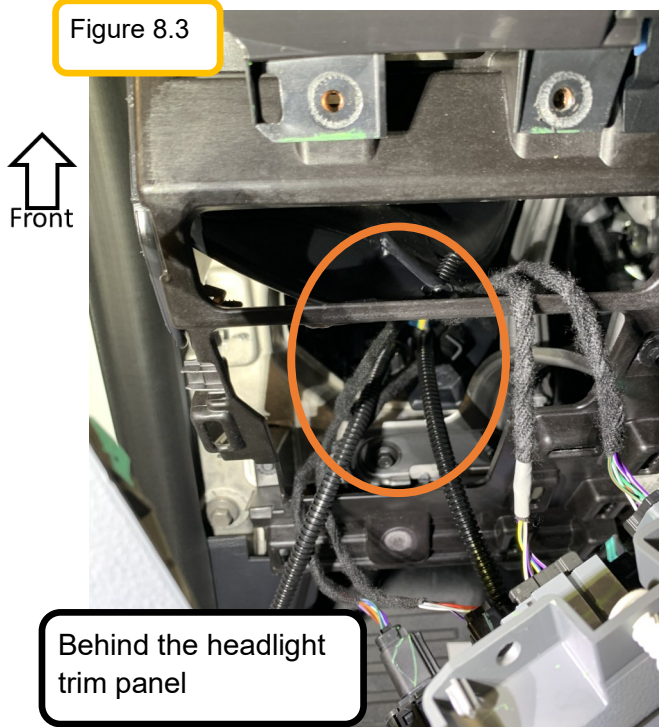
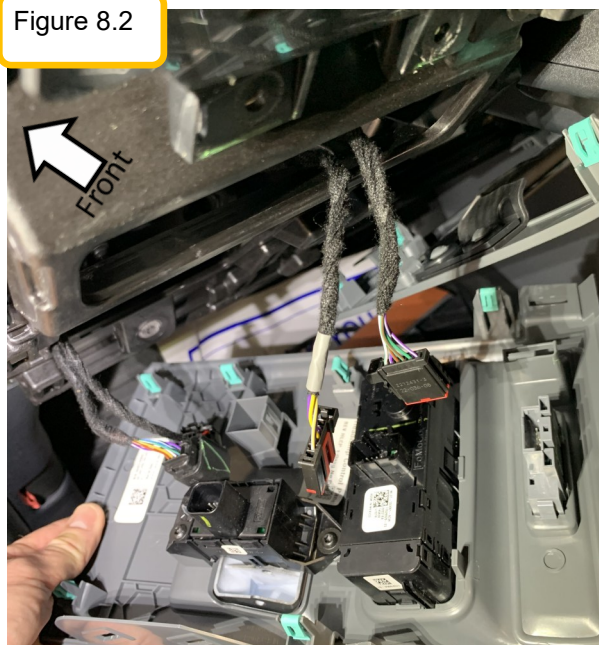


Figure 8.2



Switched power

12V Constant

Ground



Figure 8.4



Step 5:

Drill a hole for the switch, in the trim panel like shown below.

The hole will be 1.25" inches down from the bottom of the headlight trim panel and 1" from the edge of the parking brake button. (4.25 from the edge of the IP panel). Figure 9.1.

Route the harnesses through the hole

Step 6:

Connect the ground spade to the gold pin on the rocker switch

Connect the white battery power spade to the opposite terminal on the switch.

Connect the red spade to the middle pin

Insert the switch into the hole and place the strobe/beacon decal (if supplied) around the switch.

Reassemble all trim and secure wiring.

Figure 9.1

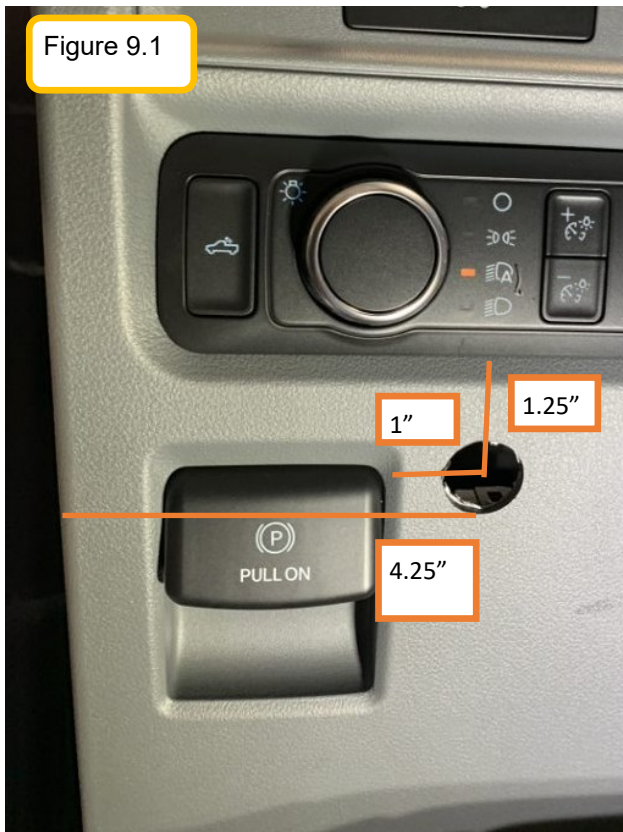


Figure 9.2

Figure 10.1



Utility Rack Corner Strobe Install

Step 1: Locate the body harness #67607. Plug the body harness into the switch harness. Any one of the connectors will work.

Step 2:

Locate the driver's side door sill area.

Figure 10.2.

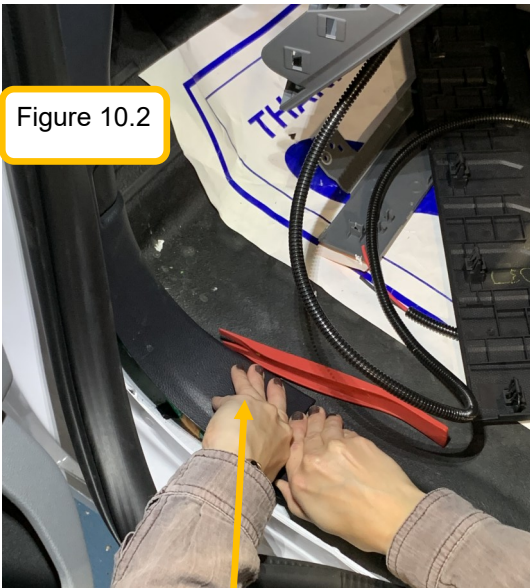
Use a trim tool to remove the trim panels in the driver's step well and dash/kick panel.

Locate the OEM grommets under the carpet. There will be one right next to the foot sill area and one to the right closer to the driver's seat.

The front strobes will use the one closest to the foot sill and the rear strobes will use the grommet closest to the driver's seat.

Figure 10.3 and 10.4.

Figure 10.2



Cut an "X" in the grommet. Route the rear strobe harness through the grommet (by the seat) to the underneath of the vehicle.

Silicone the grommet at end of install.

Step 3:

Route the strobe harness rearward following the frame (red dotted line). Secure with zip ties to the OEM harness.

Figure 10.5.

DO NOT secure to brake lines.

Grommet #2 under the trim/carpet - drivers seat (rear Strobes)

Grommet #1 under the trim/carpet - front strobes

Figure 10.3

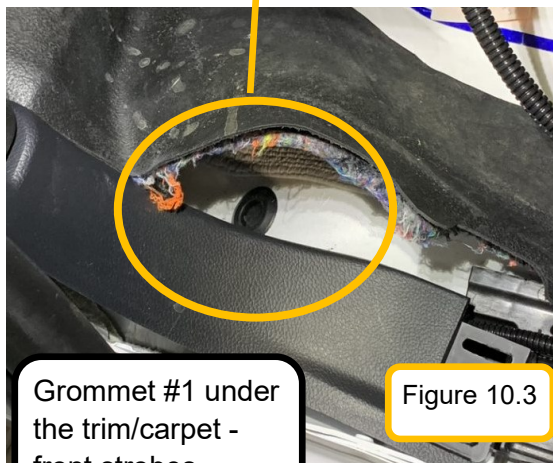
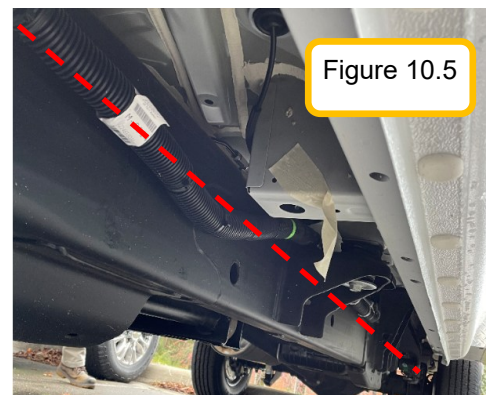


Figure 10.4



Figure 10.5

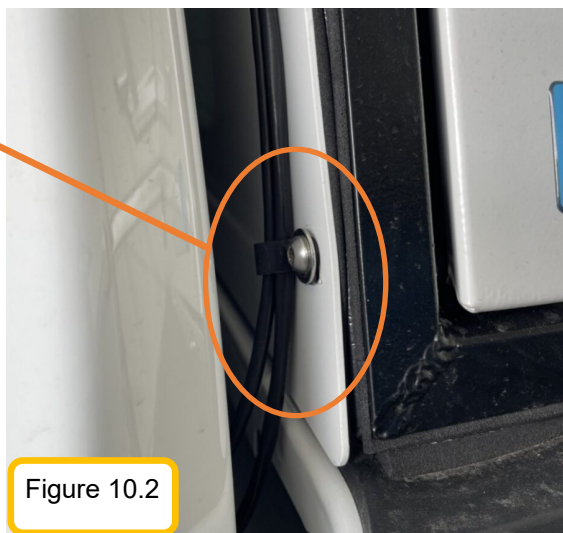


Step 4:

Route the body harness between the rear truck cab and the bed/topper.

Locate the 3/4" ID harness clamp 78813.

Utilize the topper fasteners on the rear panel and the cable clamps to secure the harness. Refer to figures 10.1 and 10.2.



Step 5:

Route the harness into the ladder rack mounting channel. Refer to figure 10.3 red line.

Route the harness rearward until you get to the end.

Step 6:

Continue to route the harness through the new extension as shown below. Tie down with zip tie's and the slides in the railing.



Figure 12.1



Figure 12.2



Figure 12.3



Figure 12.4



Figure 12.5

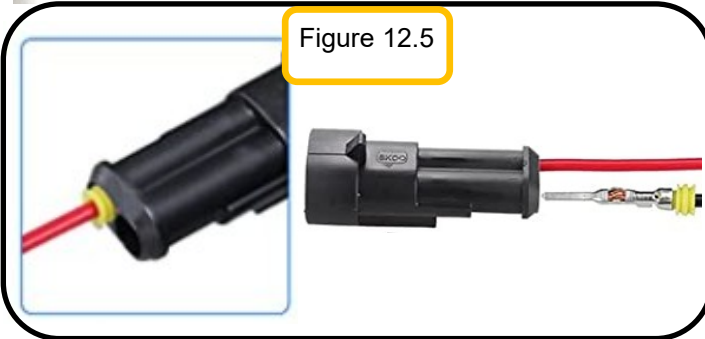
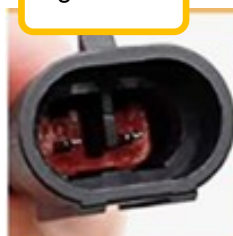


Figure 12.6



Figure 12.7



Step 7:

Locate the strobe harnesses #67614. **If strobes do not have a connector on the wires, please cut off the strobe connector ends of the harness.**

Locate the connector housing inside the bag. Figure 12.2

Note if it has a red insert inside the connector or not. Refer to figure 12.2 for red insert inside the connector.

Insert the wire terminals into the connector. **See steps below:**

In these steps be very careful to place the terminals into the correct side of the connector.

Line the red wire terminal up with cavity #1 and the black wire terminal up with cavity #2. Figure 15.3.

Note the connector has a "1" and a "2" noted on the connector (circled in red). Figure 15.4. The red wire will be inserted into the #1 cavity of the connector. The black wire will be inserted into the #2 cavity on the connector.

Be sure to align the terminal prongs up with the inside of the connector pin outs.

Carefully insert the terminals into their designated section. Figure 12.5.

Also be sure the terminals snap into position. You should feel or hear a click when they are correctly inserted.

Pull on the wiring to be sure the connectors have been inserted completely.

If not already done:

Insert the red plastic piece into the top end of the connector. This will also click into place. Figure 12.6 and 12.7.

Body Harness

Connect Strobe Harness



Step 8:

Connect the strobe harnesses to the body harness connectors.

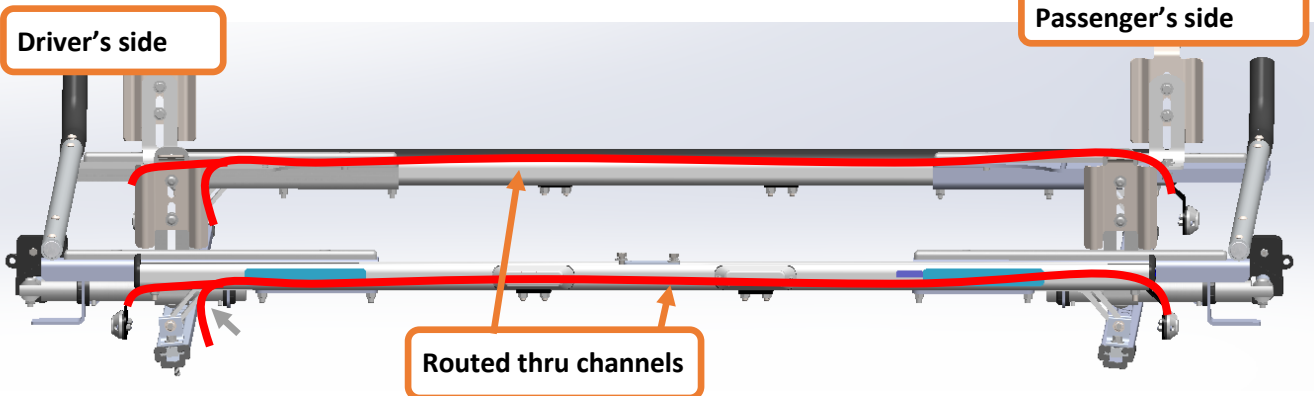
Route the strobe harnesses inside the rack cross channels. Do not pinch any of the wires.

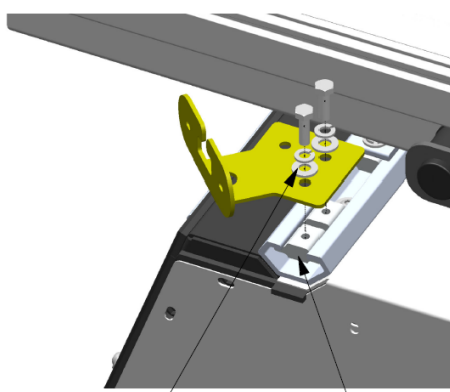
If needed, use a strobe extension harness #70869.

Driver's side

Passenger's side

Routed thru channels



PAGE: 5	STEP 1 - INSTALL BRACKETS ONTO TOPPER RAILS
Step 1.1 INSERT SLIDES INTO TOPPER RAIL 63490 (02 PLACES EACH CORNER)	
Step 1.2 INSTALL BRACKET AND FULLY TIGHTEN FAS0597, FAS0588 AND FAS0552 (02 PLACES EACH CORNER) 1/2 SOCKET	

Step 9:

Mount the strobe brackets to the topper rail.

Please refer to instructions INS76176 for mounting the strobe brackets to the topper rail.

Step 10:

Mount the strobes to the brackets using FAS0501 and FAS0503.

Attach the strobe cover to the light.

If the strobes do not have a connector on the wires, please use 2 butt connectors #35353-0 connector the harnesses to the strobes.

Connect the harness to the red and black strobe wires

If the strobes have a connector on the ends, plug directly to the strobe harness.

Be sure to pull slightly on the connector to make sure the connection is secure.

Use a heat gun to shrink the tubing.

Use electrical tape to wrap the connections.



4 Corner Strobe Install

Strobe pictures are for reference only. Please refer to product structure/spec sheets for the actual strobes for the install.

Figure 16.1



Step 1:

Locate the rear strobe harness #67107.

Connect the rear strobe harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 16.1.

Step 2:

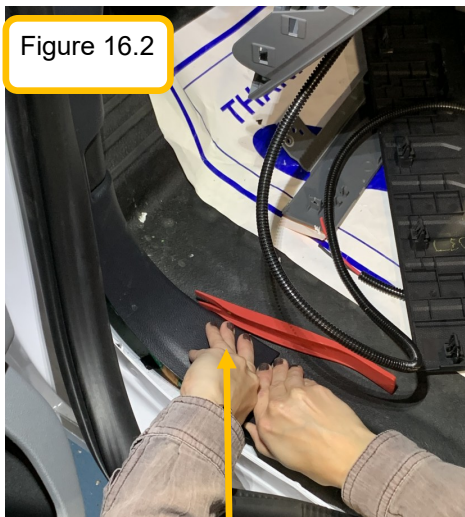
Locate the driver's side door sill area.

Figure 16.2.

Use a trim tool to remove the trim panels in the driver's step well and dash/kick panel.

Locate the OEM grommets under the carpet. There will be one right next to the foot sill area and one to the right closer to the driver's seat.

Figure 16.2

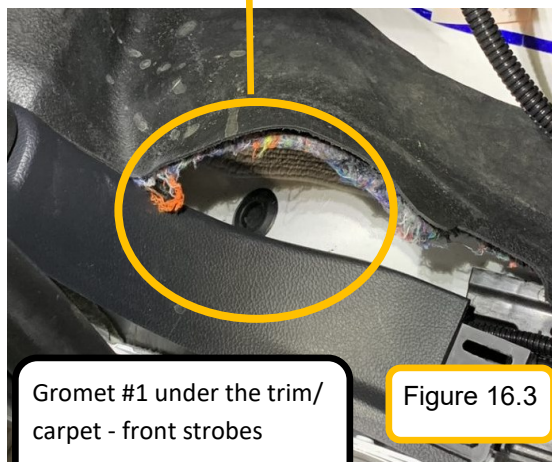


The front strobes will use the one closest to the foot sill and the rear strobes will use the grommet closest to the driver's seat.

Figure 16.3 and 16.4.

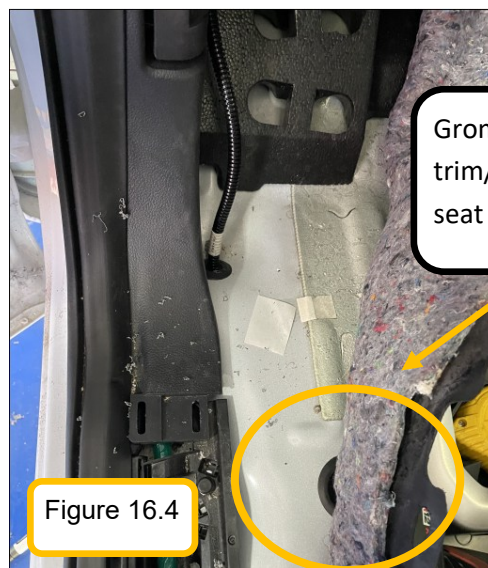
Cut an "X" in the grommet. Route the rear strobe harness through the grommet (by the seat) to the underneath of the vehicle.

Silicone the grommet when done.



Grommet #1 under the trim/
carpet - front strobes

Figure 16.3



Grommet #2 under the
trim/carpet - drivers
seat (rear Strobes)

Figure 16.4

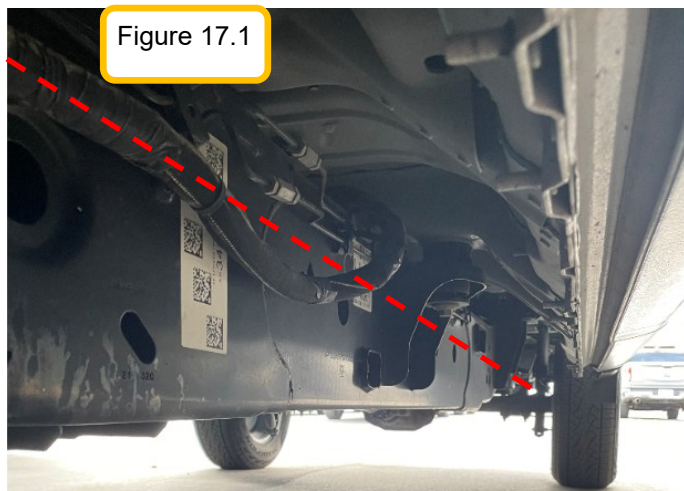


Figure 17.1

Step 3: Routing (Refer to routing diagrams at the beginning of the instructions)

Route the strobe harness rearward following the frame (red dotted line). Secure with zip ties to the OEM harness.

Figure 17.1 and 17.2.

In the bed on the driver side, drill a hole in the plastic OEM hole cover to fit the strobe harnessing through. **Silicone the grommet at end of install.**

Figure 17.3.

Route the harnessing up under the driver-side vehicle frame, and out the drilled hole in the plastic OEM hole cover.

Then route up the side of the topper, inwards along the roof cavity in the topper, and through the cut hole in the topper shelving

Figure 17.3 and 17.4.



Figure 17.2

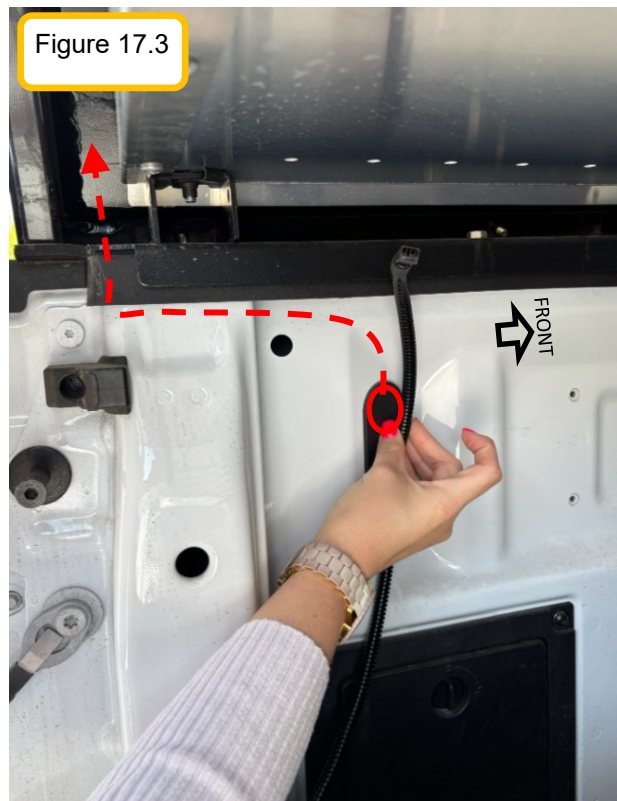


Figure 17.3

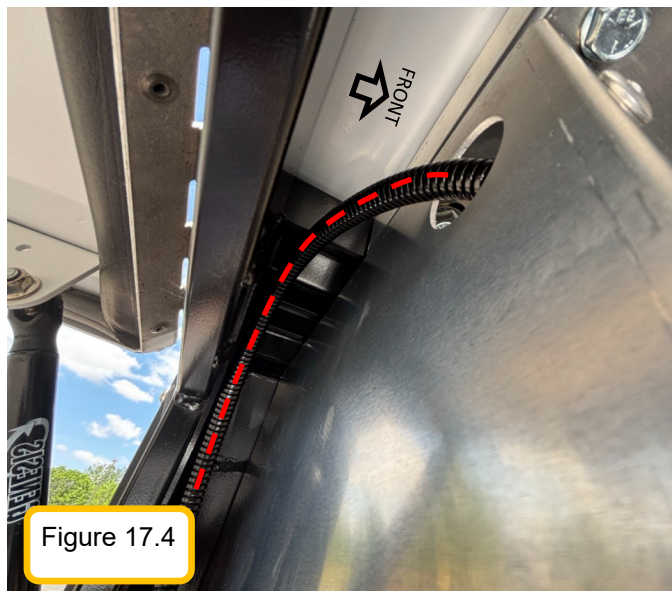


Figure 17.4



Make sure there's enough harnessing going through the shelving hole so the connection won't be pulled out during vehicle movement.

Figure 18.1.

Step 4: Mounting Strobes

Place the strobes 6" down from the top of the self itself, and 3" over from the innermost part of the shelf (the shelf's "back wall").

Figure 18.2 and 18.3.

Use the strobe as a template, mark the center hole location on the shelf (for routing the wires through).

Drill a 3/8" hole for the wire pass through of the strobe itself. Clean up the drilled hole on both sides, as it will be visible to customer.

Connect the strobe light to the harness and silicone the hole.

Place the strobes in their desired locations and fasten them onto the bumper with the **ASCO SUPPLIED SCREW AND NUT: FAS0501 and FAS0503 (for rear strobes only—front will use Ecco supplied screws)**

*****TORQUE STROBES TO 10-IN-LB'S MAXIMUM*****

Repeat for the other side strobe.

(The harness will route along the topper roof cavity to the passenger side. Figure 18.4)

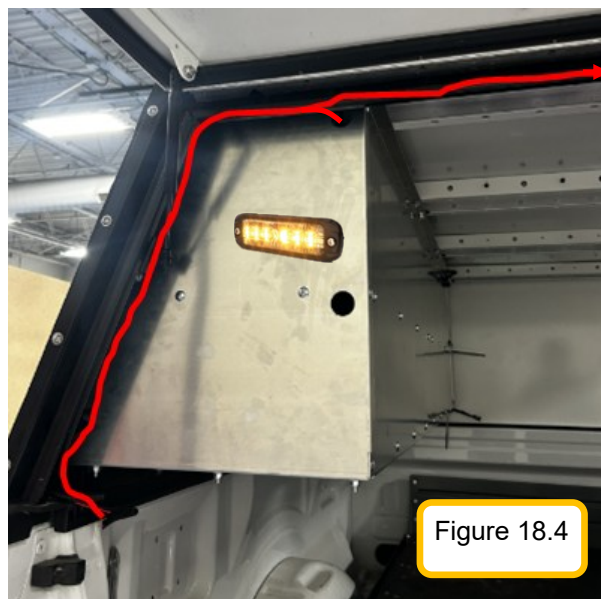
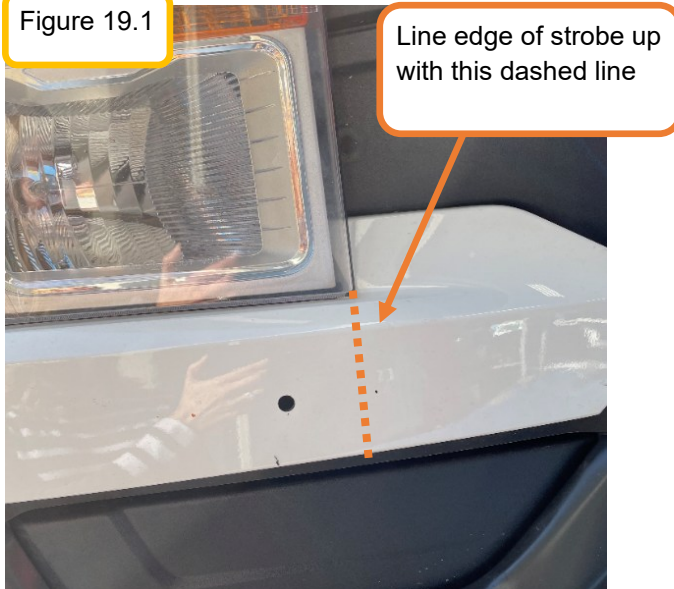


Figure 19.1



Step 7: Mounting Front Strobes

Locate the left front headlight area.

Line the farthest right edge of the strobe with the right edge of the headlight.

Figure 19.1.

Place the strobe 1.5" up from the bottom edge of the front fascia.

Figure 19.2.

Use the strobe as a template, mark the center hole location on the panel (for routing the wires through).

Drill a 3/8" hole for the wire pass through on the strobe.

Place the strobes in their desired locations and fasten them onto the grill with the supplied screws.

Figures 19.3 and 19.4.

*****TORQUE STROBES TO 10-IN-LB'S MAXIMUM*****

Repeat for the other side strobe.

Figure 19.2

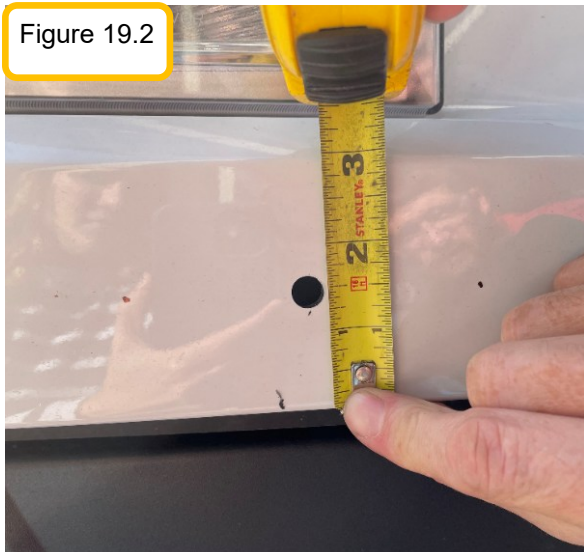


Figure 19.3



Figure 19.4



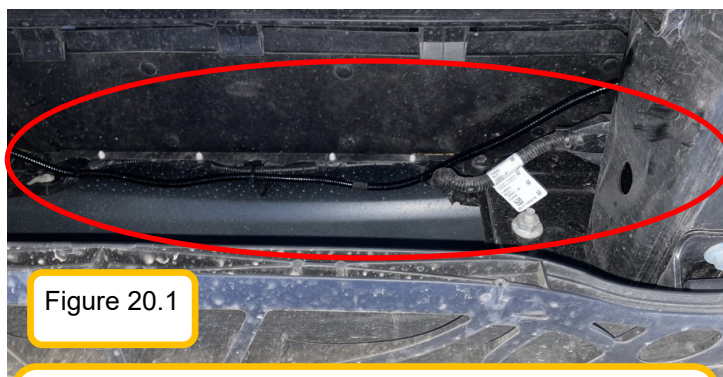


Figure 20.1

Point of view in pictures: Laying under the front bumper looking up toward the backside of the



Figure 20.2

End to route through the OEM grommet—front strobe harness

Grommet: Cab view
Also, strobe harness connected to switch

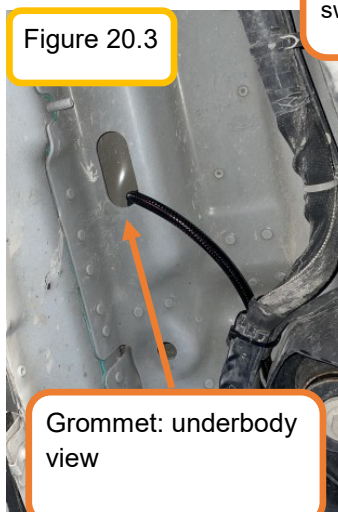


Figure 20.3

Grommet: underbody view

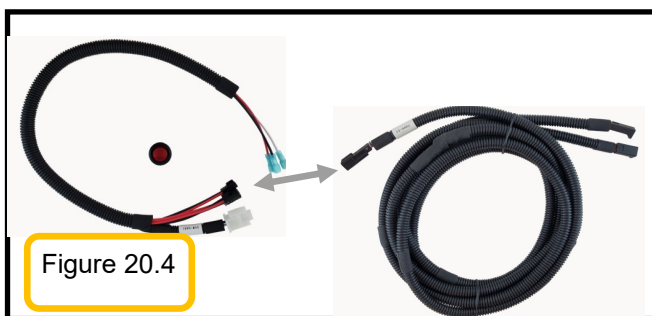


Figure 20.4

Step 5: Locate the front strobe harness #67102.

Start by placing the harness strobe ends at each strobe location, beneath the vehicle.

Note: there will be no slack in the harness so pull the wires as tight as possible without damage.

Connect the passenger side strobe to the harness. Then follow the OEM harness that runs beneath the grill over the driver's side. Zip tie the harness to the OEM harness. See figure 20.1 for routing.

Note: You can best see the OEM harness and routing by laying under the vehicle front the front end.

Be sure not to secure or route the harness anywhere near moving or hot objects.

Connect the second connector to the driver's side strobe.

Step 6:

Start by routing the inside connector end of the harness to the firewall. Figure 20.2.

Locate the grommet by the driver's foot sill in the cab area (found previously on page 11)

Route the harness down to the underneath of the vehicle, following the OEM harnesses.

Cut and X in the grommet and route the connector through. Figure 20.3.

Connect the front strobe harness to the switch harness (one of the remaining unused connectors) in the driver's foot well. Figure 20.4.

Secure wiring with zip ties.

Silicone the grommet. Figure 20.5.

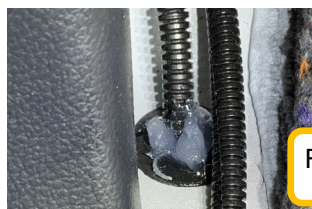


Figure 20.5

Secure all wiring with zip ties.

Replace all trim that was removed.

Be sure all pass through holes are siliconed.

Check functionality of the lights when the AUX switch 1 is pressed with and without the vehicle being turned on.

Check functionality of the 4 corner strobes

YOUR INSTALL IS COMPLETE

ITEM DESCRIPTION: WIRE TIE, NYLON 40Lb, 8.5" BLACK

MANUFACTURER: WAYTEK, INC. or equivalent
 MANUFACTURERS PART NUMBER: 21093M or 21093C

SPECIFICATIONS: STANDARD CABLE TIE
 BLACK, NYLON
 8-1/2" LONG
 TENSILE STRENGTH: 40.0 LBS
 21093M = 1,000 quantity
 21093C = 100 quantity

SPECIAL NOTES: PART NUMBER IS BLACK.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

PURCHASED PRODUCT DATA SHEET (PPDS)

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 WWW.ADRIANSTEEL.COM



CAUTION
 WHEN INSTALLING EQUIPMENT IN OR ON
 VEHICLES CHECK FOR FUEL TANKS, FUEL
 LINES, CONTROL LINES AND ELECTRICAL
 WIRING BEFORE DRILLING! ALWAYS USE
 DRILL BITS WITH INTEGRAL STOPS
 WHENEVER POSSIBLE!

DRAWN BY
 MDG

DATE DRAWN
 10/26/2006

ECN NUMBER
 18021

ECN DATE
 11/13/2015

PART WEIGHT
 0.01 LBS.

REV. LEVEL
 D

PART NUMBER
13905-0

PART NUMBER

26618-0**ITEM DESCRIPTION: SILICONE, 1oz. TUBE**

SPECIFICATIONS: SU5005 RTV SILICONE
1oz. TUBE
CLEAR OR EQUIVILENT
SELF PIERCING CAP

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

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**WHEN INSTALLING EQUIPMENT IN OR ON
VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!**

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

PART NUMBER

26618-0**ITEM DESCRIPTION: SILICONE, 1oz. TUBE**

SPECIFICATIONS: SU5005 RTV SILICONE
1oz. TUBE
CLEAR OR EQUIVILENT
SELF PIERCING CAP

SPECIAL NOTES:

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!

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**WHEN INSTALLING EQUIPMENT IN OR ON
VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!**

DRAWN BY
JLC

DATE DRAWN
7/21/2001

ECN NUMBER
16551

ECN DATE
7/22/2014

PART WEIGHT
0.02 LBS.

REV. LEVEL
C

PART NUMBER
26618-0

PART NUMBER

35353-0**ITEM DESCRIPTION: BUTT CONNECTOR FOR 22-18 GA WIRE, SEALED****MANUFACTURER: WAYTEK or CTW****MANUFACTURERS PART NUMBER: #30965 or #4-18-6****SPECIFICATIONS:** Red Color Insulated Butt Connector with Sealable Ends
For 18 – 22 GA Wire**SPECIAL NOTES: NONE****SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!****PURCHASED PRODUCT DATA SHEET (PPDS)**

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**ADRIAN STEEL**
VAN AND PICKUP EQUIPMENT**906 JAMES STREET
ADRIAN, MI 49221
517-265-6194
WWW.ADRIANSTEEL.COM****CAUTION**
WHEN INSTALLING EQUIPMENT IN OR ON
VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!DRAWN BY
APGDATE DRAWN
11/9/2007ECN NUMBER
14810ECN DATE
5/31/2012PART WEIGHT
.01 LBS.REV. LEVEL
CPART NUMBER
35353-0

PART NUMBER

36096-0

ITEM DESCRIPTION: GROMMET,RUBBER,1" ID



MANUFACTURER: CTW (or equiv.)
MANUFACTURERS PART NUMBER: G2930

SPECIFICATIONS: 1" I.D.
1-1/4" PANEL HOLE DIA.
3/16" MAX PANEL THICKNESS
1-1/2" O.D.
7/16" THICKNESS

SPECIAL NOTES: NONE

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!**PURCHASED PRODUCT DATA SHEET (PPDS)**

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ADRIAN STEEL
VAN AND PICKUP EQUIPMENT

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ADRIAN, MI 49221
517-265-6194
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**CAUTION**

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VEHICLES CHECK FOR FUEL TANKS, FUEL
LINES, CONTROL LINES AND ELECTRICAL
WIRING BEFORE DRILLING! ALWAYS USE
DRILL BITS WITH INTEGRAL STOPS
WHENEVER POSSIBLE!

DRAWN BY
HJE

DATE DRAWN
04/01/2008

ECN NUMBER
19252

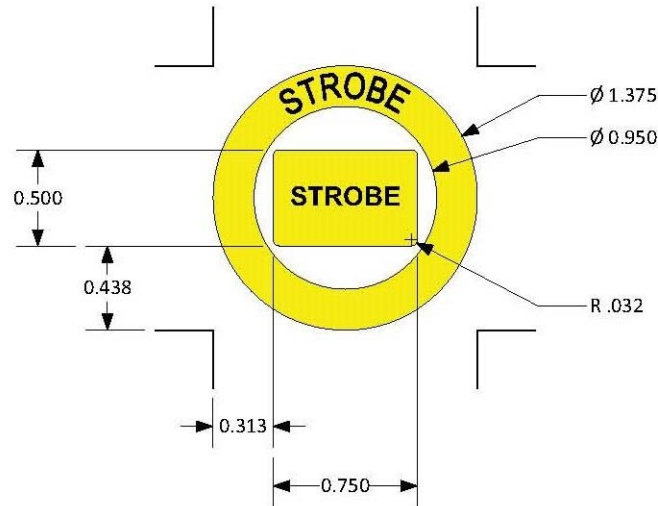
ECN DATE
01/31/2017

PART WEIGHT
0.01 LBS.

REV. LEVEL
D

PART NUMBER
36096-0

ITEM DESCRIPTION: STROBE SWITCH DECAL SET



MANUFACTURER: VANNER

MANUFACTURERS PART NUMBER: TBD

SPECIFICATIONS: (1) Circular Yellow Decal (ID=0.950", OD=1.375") with "STROBE" in black letters
 (1) Rectangular Yellow Decal (H=0.500", L=0.750") with "STROBE" in black letters

SPECIAL NOTES: For round rocker switch (OD=0.780") and Ford Transit Upfitter Switches.

SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!**PURCHASED PRODUCT DATA SHEET (PPDS)**

Page 1 of 1

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CAUTION
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DRAWN BY
 RJB

DATE DRAWN
 11/15/2017

ECN NUMBER
 XXXX

ECN DATE
 XXXXXX

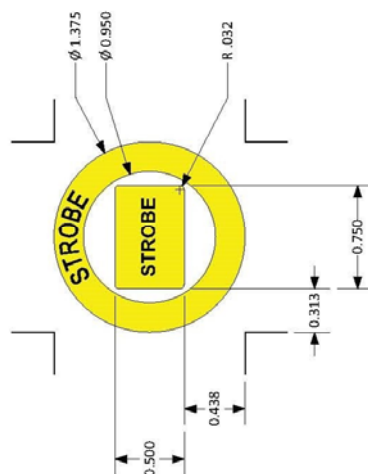
PART WEIGHT
 0.02 LBS.

REV. LEVEL
 A

PART NUMBER
55073

REVISIONS			
REV	DESCRIPTION	DATE	RE/ECO

- NOTES:
1. MATERIAL : .002 YELLOW POLYESTER
 2. ARTWORK FROM D91XXXX-A PAGE 1, PMS BLACK
 3. .001 OVERLAMINATE
 4. ADHESIVE BACKED



VANNER INCORPORATED		HILLIARD, OHIO USA	
TOL. LABEL/ METAL .x ± .025 .xx ± .015 .xxx ± .005		TITLE: LABEL, STROBE TXT, .95ID ROUND SWITCH	
TOL. CABLES .xxx ± .25		DRAWING/ PART NO. D01XXXX	
DRNDATE MEO 11/14/17	CHKDATE XXX XXXXXX	SHEET 1 OF 1	REV A
SCALE: NONE RE/ECO NO.: XXXX			
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PART NUMBER
55073

Page 2 of 1

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517-265-6194
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WHEN INSTALLING EQUIPMENT IN OR ON VEHICLES CHECK FOR FUEL TANKS, FUEL LINES, CONTROL LINES AND ELECTRICAL WIRING BEFORE DRILLING! ALWAYS USE DRILL BITS WITH INTEGRAL STOPS WHENEVER POSSIBLE!

DRAWN BY
RJB

DATE DRAWN
11/15/2017

ECN NUMBER
XXXX

ECN DATE
XXXXXXXX

PART WEIGHT
0.02 LBS.

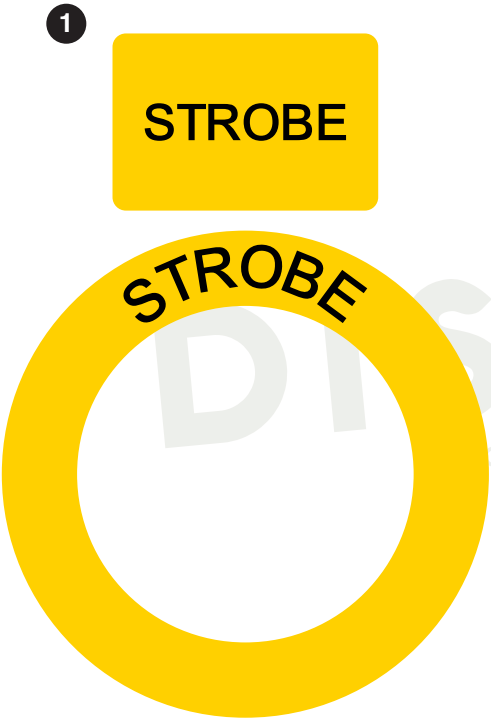
REV. LEVEL
A

PART NUMBER
55073

LOC | QTY | Part # | Description | Size

Material: IJ39 | Lamination: 8518

1 1: 6039597.Strobe Switch-1.52" x 2.07"



Note: Part will not be weeded, just cut.

Kit# 8001872 | Adrian Steel Part # 55073

06/01/2023 • JY
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ASCO REV.1 6/14/2023

DISTYLL GRAPHIC SOLUTIONS FINAL DESIGN	CLIENT NAME:		Switch Decals		O-ID: O15319-1
	Adrian Steel				Rev #: XXXX
	DATE:	DESIGNER:			Opt #: A
	O5/31/2023	TRN			

Please check information to confirm accurate vehicle specifications.

CLEANING INSTRUCTIONS All surfaces must be considered contaminated. Clean the vehicle surface immediately before applying the film. Dust and other contaminates can collect quickly on the surface and prevent the film from adhering properly. Even a freshly painted surface can collect dust before graphics can be applied.

For the best success with the films recommended for vehicle graphics, always apply the graphics when the air and vehicle surface are both above 60°F (16°C) and below 90°F (32°C) before beginning the installation.

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
Note: This is also from HellermannTyton: Their Part Number is 156-00592



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DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY

TOLERANCES & INSPECTION			RELEASE & REVISIONS													
UNLESS OTHERWISE SPECIFIED ALL BEND ANGLES ARE 90 DEGREES ALL DIMENSIONS ARE IN INCHES. REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION <table><tr><th>FEATURES</th><th>HOLES/SLOTS</th><th>ANGLES</th></tr><tr><td>0.0 = ± .125</td><td>0.0 = ± .062</td><td>0° = ± 2°</td></tr><tr><td>0.00 = ± .062</td><td>0.00 = ± .031</td><td>0.0° = ± 1°</td></tr><tr><td>0.000 = ± .031</td><td>0.000 = ± .015</td><td></td></tr></table> Material Thickness: per ASTM Std. Weld Callouts per AWS			FEATURES	HOLES/SLOTS	ANGLES	0.0 = ± .125	0.0 = ± .062	0° = ± 2°	0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°	0.000 = ± .031	0.000 = ± .015		INITIAL ECN: 22671 CURRENT ECN: 22671 ECN DESCRIPTION: RELEASE TO PRODUCTION REVISED BY: EMS	
FEATURES	HOLES/SLOTS	ANGLES														
0.0 = ± .125	0.0 = ± .062	0° = ± 2°														
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°														
0.000 = ± .031	0.000 = ± .015															

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER
Fastenal
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
0787863
COLOR (ONLY LIST IF COLOR SPECIFIC)
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

PRINTED DOCUMENT IS UNCONTROLLED			Sheet 1 of 1
PART / PRODUCT IDENTIFICATION			
	ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
	DESIGNED BY: EMS		REVISION LEVEL A
DESCRIPTION: Clip, Black UV Tie, HellermannTyton			
WEIGHT (Lbs.): 0.5	SEGMENT CODE: ELE	PART NUMBER: 59713	

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
N/A



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED		
ALL BEND ANGLES ARE 90 DEGREES		
ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN: 25297
CURRENT ECN: 25334
ECN DESCRIPTION: UPDATE SUPPLIER TO SAY EQUIVALENT
REVISED BY:

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
MCMASTER-CARR OR EQUIVALENT
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
8876T38 OR EQUIVALENT
COLOR (ONLY LIST IF COLOR SPECIFIC)
BLACK
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)
(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

		ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL B	
MAT'L USED:				DESIGNED BY: E.BURKE			
DESCRIPTION: Nylon Plastic Loop Clamp							
WEIGHT (Lbs.): 0.001		SEGMENT CODE: HDW		PART NUMBER: 66843			

PURCHASED COMPONENT KEY FEATURES	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)	
N/A	
LOAD/RATING REQUIREMENT	
N/A	
MATERIAL REQUIREMENT	
N/A	
PACKAGING REQUIREMENT	
N/A	
OTHER REQUIREMENTS	



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TOLERANCES & INSPECTION	RELEASE & REVISIONS
UNLESS OTHERWISE SPECIFIED	INITIAL ECN: 25378
ALL BEND ANGLES ARE 90 DEGREES	CURRENT ECN: 25378
ALL DIMENSIONS ARE IN INCHES.	ECN DESCRIPTION:
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	RELEASE FOR PRODUCTION
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031	
HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015	
ANGLES 0° = ± 2° 0.0° = ± 1°	
Material Thickness: per ASTM Std. Weld Callouts per AWS	REVISED BY:

PURCHASED COMPONENT	
REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL	
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER 67095 OR PWR-HAR4	
COLOR (ONLY LIST IF COLOR SPECIFIC)	
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)	
NO	

PRINTED DOCUMENT IS UNCONTROLLED			Sheet 1 of 1
PART / PRODUCT IDENTIFICATION			
	ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
	DESIGNED BY: E.BURKE		REVISION LEVEL A
MAT'L USED: PURCHASED		DESCRIPTION: POWER HARNESS EXTERIOR 4	
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67095	

PURCHASED COMPONENT KEY FEATURES	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)	
N/A	
LOAD/RATING REQUIREMENT	
N/A	
MATERIAL REQUIREMENT	
N/A	
PACKAGING REQUIREMENT	
N/A	
OTHER REQUIREMENTS	



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TOLERANCES & INSPECTION		PART / PRODUCT IDENTIFICATION			
UNLESS OTHERWISE SPECIFIED		AS ADRIAN STEEL® ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221			REVISION LEVEL A
ALL BEND ANGLES ARE 90 DEGREES					
ALL DIMENSIONS ARE IN INCHES.		DESIGNED BY: E.BURKE			
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		DESCRIPTION: SWITCH HARNESS 1 EXTERIOR LIGHTING			
FEATURES		MAT'L USED: PURCHASED	WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67097
HOLES/SLOTS					
ANGLES					
0.0 = ± .125					
0.00 = ± .062					
0.000 = ± .031					
0.0 = ± .062					
0.00 = ± .031					
0.0° = ± 2°					
0.0° = ± 1°					
0.000 = ± .015					
Material Thickness: per ASTM Std. Weld Callouts per AWS					
RELEASE & REVISIONS		PURCHASED COMPONENT			
INITIAL ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP GLOBAL			
CURRENT ECN: 25378		REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER SSW-HAR1 OR 67097			
ECN DESCRIPTION: RELEASE FOR PRODUCTION		COLOR (ONLY LIST IF COLOR SPECIFIC) NO			
REVISED BY:		COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)			

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS



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TOLERANCES & INSPECTION		
UNLESS OTHERWISE SPECIFIED		
ALL BEND ANGLES ARE 90 DEGREES		
ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS
INITIAL ECN: 25378
CURRENT ECN: 25378
ECN DESCRIPTION:
RELEASE FOR PRODUCTION
REVISED BY:

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
FS-HAR2 OR 67102
COLOR (ONLY LIST IF COLOR SPECIFIC)
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

PRINTED DOCUMENT IS UNCONTROLLED			Sheet 1 of 1
PART / PRODUCT IDENTIFICATION			
 ADRIAN STEEL [®]		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	
MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE	REVISION LEVEL A
DESCRIPTION: FRONT STROBE HARNESS 2			
WEIGHT (Lbs.): 0.2	SEGMENT CODE: ELE	PART NUMBER: 67102	

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED		
ALL BEND ANGLES ARE 90 DEGREES		
ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN: 25378
CURRENT ECN: 25378
ECN DESCRIPTION:
RELEASE FOR PRODUCTION
REVISED BY:

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP GLOBAL
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
RS-HAR3 OR 67108
COLOR (ONLY LIST IF COLOR SPECIFIC)
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

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Sheet 1 of 1

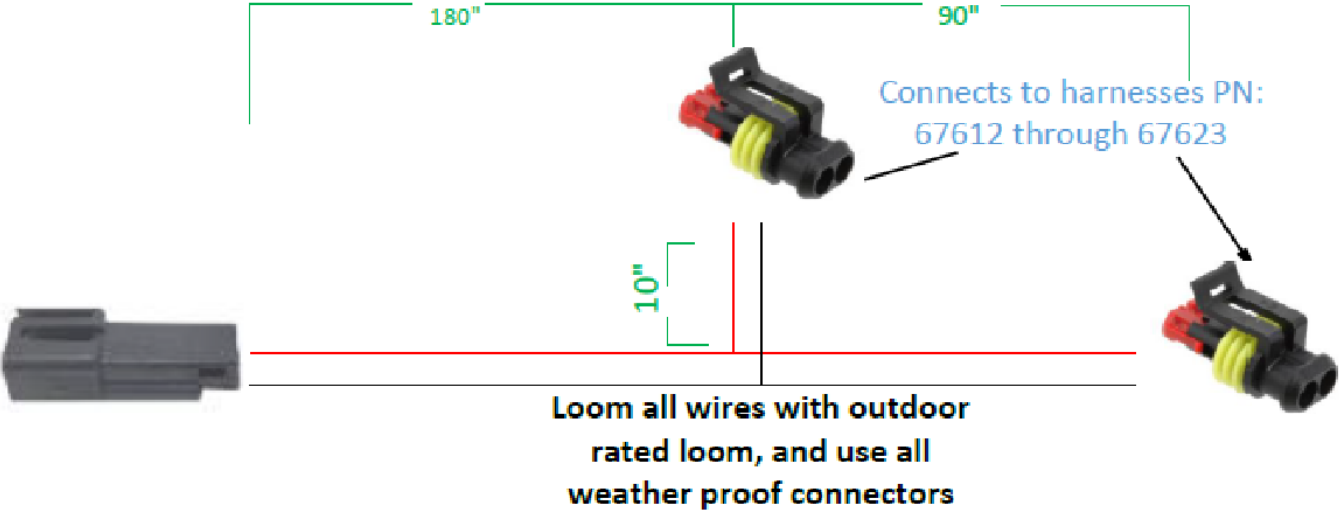
PART / PRODUCT IDENTIFICATION

		ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL A	
MAT'L USED:		PURCHASED		DESIGNED BY:		E.BURKE	
DESCRIPTION:		REAR STROBE HARNESS 3					
WEIGHT (Lbs.): 0.2		SEGMENT CODE: ELE		PART NUMBER: 67108			

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
PLUG AND PLAY BODY HARNESS 3 FOR LADDER RACK LIGHTING
INCLUDES: 2 CAPS FOR EXTERIOR CONNECTORS 20 CABLE TIES 5 WIRE TIE WITH CHRISTMAS TREES 7 STICKEY BACKED CABLE TIE HOLDERS 7 EDGE CLIP ZIP TIES 7 NYLON PLASTIC LOOP CLAMPS 7 PHILLIPS HEAD TEK SCREWS

#1



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TOLERANCES & INSPECTION	RELEASE & REVISIONS
UNLESS OTHERWISE SPECIFIED ALL BEND ANGLES ARE 90 DEGREES ALL DIMENSIONS ARE IN INCHES. REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION	INITIAL ECN: 26041 CURRENT ECN: 26041 ECN DESCRIPTION: RELEASE TO PRODUCTION REVISED BY: EMB
FEATURES 0.0 = ± .125 0.00 = ± .062 0.000 = ± .031 Material Thickness: per ASTM Std. Weld Callouts per AWS	HOLES/SLOTS 0.0 = ± .062 0.00 = ± .031 0.000 = ± .015
ANGLES 0° = ± 2° 0.0° = ± 1°	

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER AAMP
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER 67607
COLOR (ONLY LIST IF COLOR SPECIFIC) NO
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.) NO

PRINTED DOCUMENT IS UNCONTROLLED

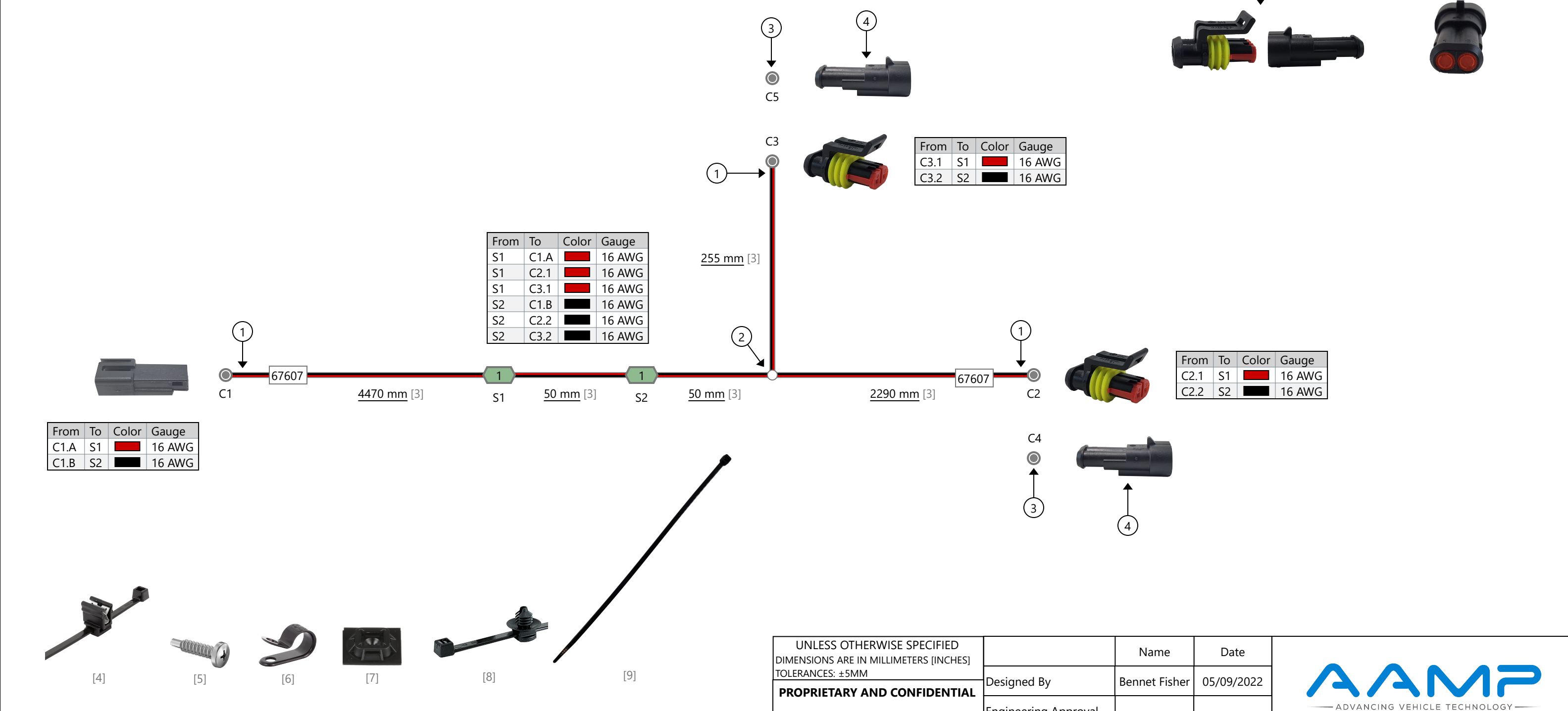
Sheet 1 of 1

PART / PRODUCT IDENTIFICATION			
 ADRIAN STEEL®	ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL A
	MAT'L USED: PURCHASED	DESIGNED BY: E.BURKE	
DESCRIPTION: BODY HARN 3 EXT P&P			
WEIGHT (Lbs.): 0.1	SEGMENT CODE: ELE	PART NUMBER: 67607	

Bill of Materials			
Id	Type	Part Number	Quantity
1	Wire	16 AWG Red GXL	7215 mm
2	Wire	16 AWG Black GXL	7165 mm
3	Corrugated Tubing	0.25" Nylon Split Wall	7115 mm
4	Edge Clip Cable Tie	156-00539	7
5	Fastener	90415A330	7
6	Cable Clamp		7
7	Cable Tie Mount		7
8	Cable Tie with Mount	156-00157	5
9	Cable Tie		20

Coverings	
Id	Assembly
[3]	

Notes	
①	Lock Tape Loom with Tesa 51036
②	Lock Tape Loom with Tesa 51036 on both side of wire breakout
③	Plug C4 into C2; Plug C5 into C3
④	C4 & C5 Cavities are sealed

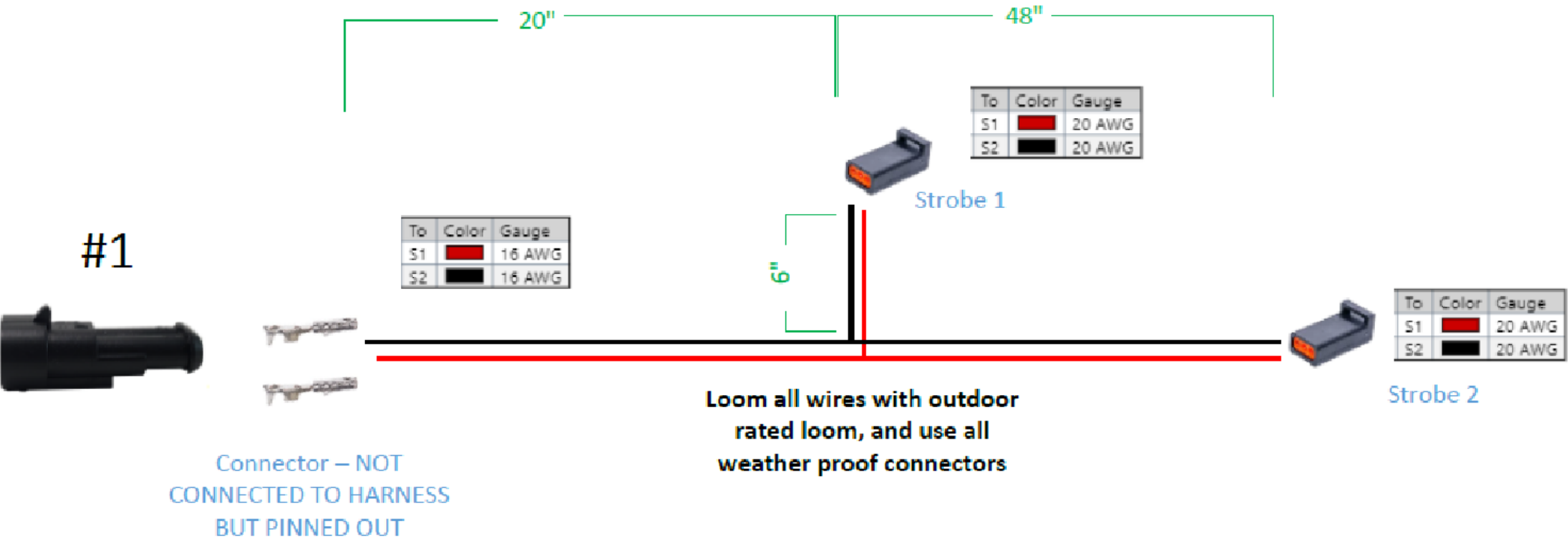


Revisions			
Rev.	Date	Author	Description
	5/9/2022	Bennet Fisher	Initial Drawing
	7/14/2022	Bennet Fisher	Updated Wire Lengths to Connector C2 and C3
A	12/15/2022	Bennet Fisher	Updated Wire Lengths to Connector C2 and C3; Added loom for C2; Added Connector "Caps" with Seals; Added Second Harness Label

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS [INCHES] TOLERANCES: ±5MM PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AAMP GLOBAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AAMP GLOBAL IS PROHIBITED.		Name	Date		
	Designed By	Bennet Fisher	05/09/2022		
	Engineering Approval				
	Manufacturing Approval				
	Revision Approval			Part Number: 67607_	
Quality Assurance				Description: Strobe Extension Harness	
				Revision: A	
				Sheet: 1	

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
PLUG AND PLAY HARNESS FOR LADDER RACKS 2 STROBES, 1 ON EACH END OF 58" RACK
INCLUDES: 10 CABLE TIES 1 CABLE GLAND 1 UN-CONNECTED TE282080-1 IN BAG



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DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY

TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED		
ALL BEND ANGLES ARE 90 DEGREES		
ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN: 26041
CURRENT ECN: 26041
ECN DESCRIPTION:
RELEASE TO PRODUCTION
REVISED BY: EMB

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
AAMP
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
67614
COLOR (ONLY LIST IF COLOR SPECIFIC)
NO
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

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Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

 ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221	REVISION LEVEL A
MAT'L USED: PURCHASED		DESIGNED BY: E.BURKE	
DESCRIPTION: STROBE HARN FOR 58" RACK			
WEIGHT (Lbs.): 0.1	SEGMENT CODE: ELE	PART NUMBER: 67614	

PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)
N/A
LOAD/RATING REQUIREMENT
N/A
MATERIAL REQUIREMENT
N/A
PACKAGING REQUIREMENT
N/A
OTHER REQUIREMENTS
ECCO STROBE LIGHT: ED3801 WITH EXTERIOR PLUG AND PLAY CONNECTOR



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TOLERANCES & INSPECTION

UNLESS OTHERWISE SPECIFIED		
ALL BEND ANGLES ARE 90 DEGREES		
ALL DIMENSIONS ARE IN INCHES.		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION		
FEATURES	HOLES/SLOTS	ANGLES
0.0 = ± .125	0.0 = ± .062	0° = ± 2°
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°
0.000 = ± .031	0.000 = ± .015	
Material Thickness: per ASTM Std. Weld Callouts per AWS		

RELEASE & REVISIONS

INITIAL ECN: 25921
CURRENT ECN: 25921
ECN DESCRIPTION:
RELEASE TO PRODUCTION
REVISED BY: N/A

PURCHASED
COMPONENT

REFERENCED SUPPLIER AND/OR MANUFACTURER
ECCO
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER
ED3801A-ADR
COLOR (ONLY LIST IF COLOR SPECIFIC)
AMBER LED/CLEAR LENS
COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)
NO

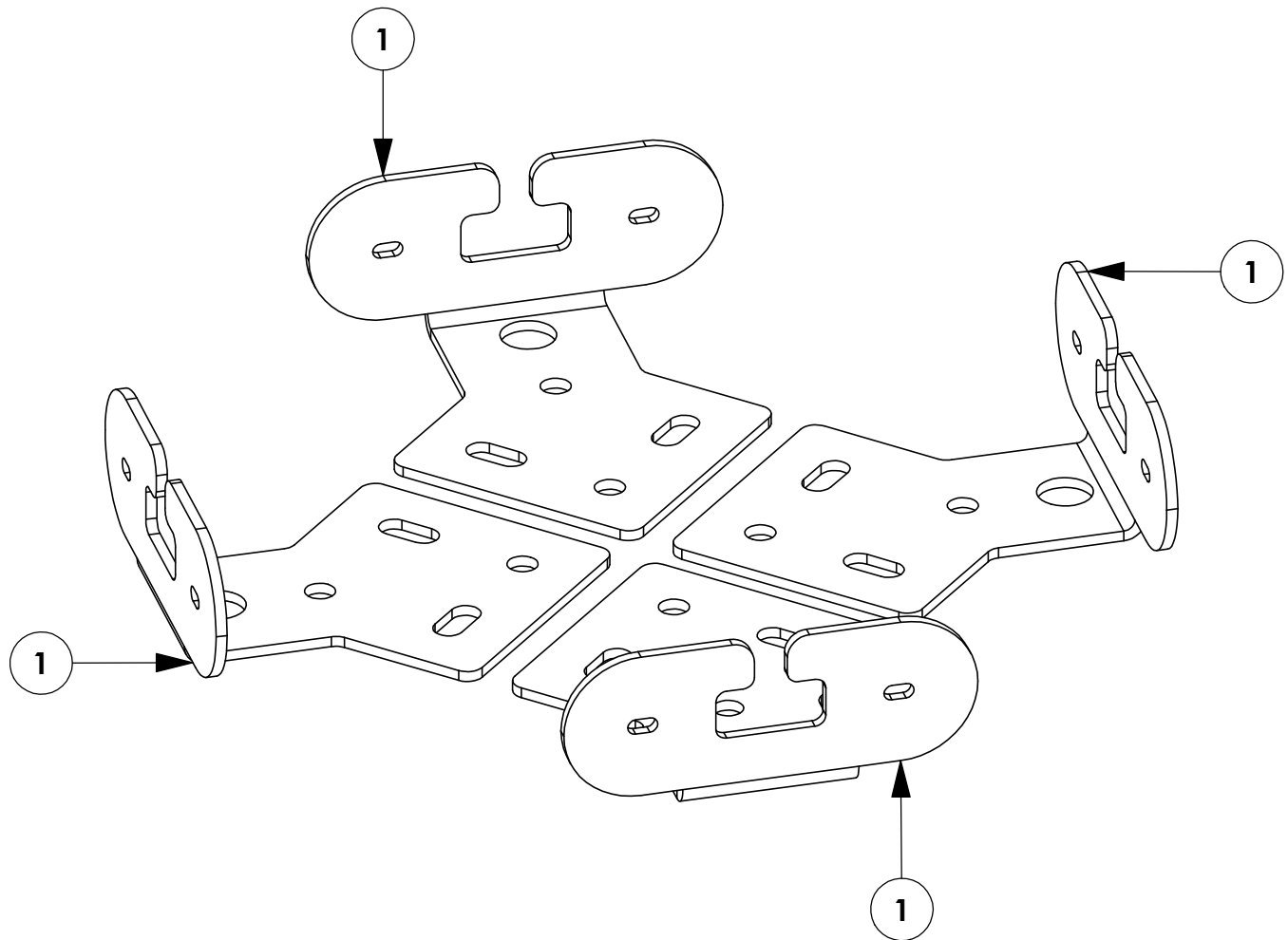
PRINTED DOCUMENT IS UNCONTROLLED

Sheet 1 of 1

PART / PRODUCT IDENTIFICATION

		ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221		REVISION LEVEL A
MAT'L USED: PURCHASED				DESIGNED BY: EMB		
DESCRIPTION: ECCO STROBE ED3801A W/CON						
WEIGHT (Lbs.): 0.5		SEGMENT CODE: EST			PART NUMBER: 67686	

<i>INSTR. NUMBER</i> : INS76167		<i>PG:</i> 1	<i>REV:</i> B	<i>ITEM NO.</i>	<i>PART NUMBER</i>	<i>DESCRIPTION</i>	<i>QTY.</i>
<i>PART NUMBER</i> • 76167 <i>PART NUMBER</i> • 81935				1	74847-B	STROBE BRKT ANGLED,ATT, BLACK	4
				<i>PART</i> • ATT,ANGLED STRB BRKT KIT <i>DESC.</i> • ANGLED BRKT KIT, ECCO STROBE			



TOOLS NEEDED:

- 1/2 SOCKET
- SOCKET DRIVER

GET TO KNOW THE VEHICLE - AT THE BEGINNING OF ANY INSTALLATION, CHECK THE LOCATION OF THE FUEL TANK, FUEL LINES, BRAKE LINES, HIGH VOLTAGE BATTERIES AND WIRING HARNESSSES TO AVOID INJURY OR PROPERTY DAMAGE FROM TOOL CONTACT.

SEAL ALL EXTERIOR HOLES - ALL INSTALLATION HOLES SHOULD BE SEALED WITH BUTYL TAPE OR SILICON TO PREVENT WATER AND EXHAUST GASES FROM ENTERING THE VEHICLE.

CONTROL DRILL DEPTH - TO AVOID DAMAGE TO THE VEHICLE, USE A DRILL STOP OR CLEARED STEP BIT WHEN DRILLING INSTALLATION HOLES.

ALWAYS ADD PRIMER - WHEN ADDING INSTALLATION HOLES BE SURE TO USE A SELF-ETCHING PRIMER TO PREVENT CORROSION, FASTENER FAILURE AND INJURY.

MOUNTING POINTS MUST HAVE METAL-TO-METAL CONTACT - USE PROVIDED MOUNTING SPACERS TO ACCOMMODATE FOR VEHICLE FEATURES, CARPET OR SUBFLOORS.

PROVIDE CLEARANCE FOR SPACERS - IF THE INSTALLATION VEHICLE CONTAINS A CARPET OR SUBFLOOR, USE A 1-3/16" DIAMETER CARPET CUTTER (P/N: 31183-0) AT ALL MOUNTING LOCATIONS TO OPEN UP ROOM FOR SPACERS.

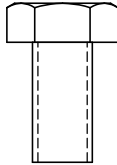
CHECK SPACER ORIENTATION - BE SURE THAT THE INDENT IN THE SPACER COVERS THE PLUSNUT HEAD; THIS ENSURES THE MOST METAL-TO-METAL CONTACT AND REDUCES VIBRATION.

PLUSNUT INSTALLATION - A PLUSNUT GUN IS RECOMMENDED FOR PLUSNUT INSTALLATION FOR ITS PRODUCTION SPEED. HOWEVER, A PLUSNUT SETTING TOOL CAN ALSO BE USED (P/N: 22200-0).

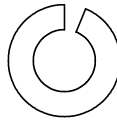
THRU-BOLT CLEARANCE - WHEN USING A THRU-BOLT AT ANY MOUNTING LOCATION, BE SURE THAT YOUR HOLE HAS 1/16" CLEARANCE.

FASTENERS USED

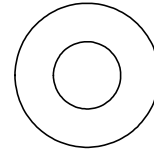
BAG REFERENCE: BAG76167



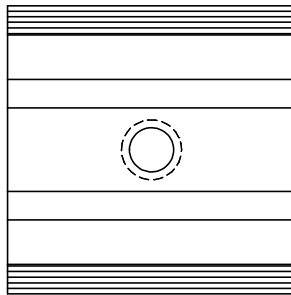
FAS0717
SCREW,HH
5/16-18X.62 SS
QTY: 08



FAS0588
WASHER,LCK SPLIT
5/16 SS
QTY: 08



FAS0552
WASHER,FLAT USS
5/16 SS
QTY: 08



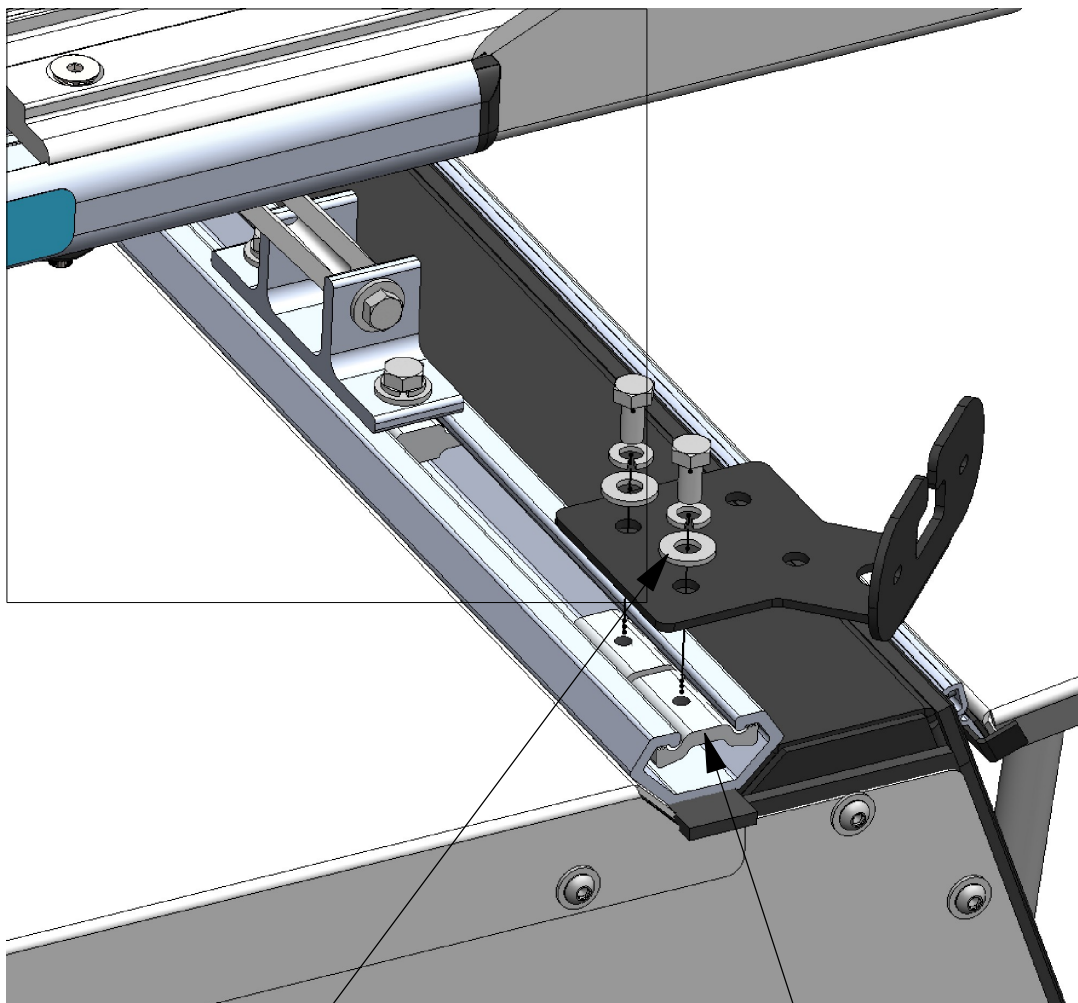
35335-0
SLIDE,1.5"/ AD RAIL
QTY: 08

INTENTIONALLY LEFT BLANK

STEP 1 - INSTALL BRACKETS ONTO TOPPER RAILS

Step 1.1
INSERT SLIDES
INTO TOPPER
RAIL
35335-0
(02 PLACES
EACH CORNER)

Step 1.2
INSTALL
BRACKET FLUSH
TO END OF RAIL
AND FULLY
TIGHTEN
FAS0717,
FAS0588 AND
FAS0552
(02 PLACES
EACH CORNER)
1/2 SOCKET



Step 1.2

Step 1.1

INSTALLATION IS COMPLETE

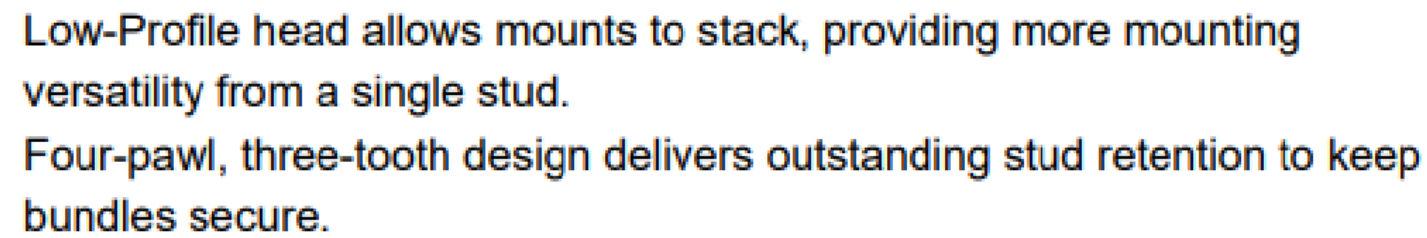
PURCHASED COMPONENT KEY FEATURES	
DESCRIPTION OF REQUIREMENTS	
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)	N/A
LOAD/RATING REQUIREMENT	N/A
MATERIAL REQUIREMENT	N/A
PACKAGING REQUIREMENT	N/A
OTHER REQUIREMENTS	
• 80lbs Tensile Strength • Low-Profile M5/M6 Stud Mount • Color: Black	

DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)

LOAD/RATING REQUIREMENT	
1	1
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100	100

MATERIAL REQUIREMENT

N/A



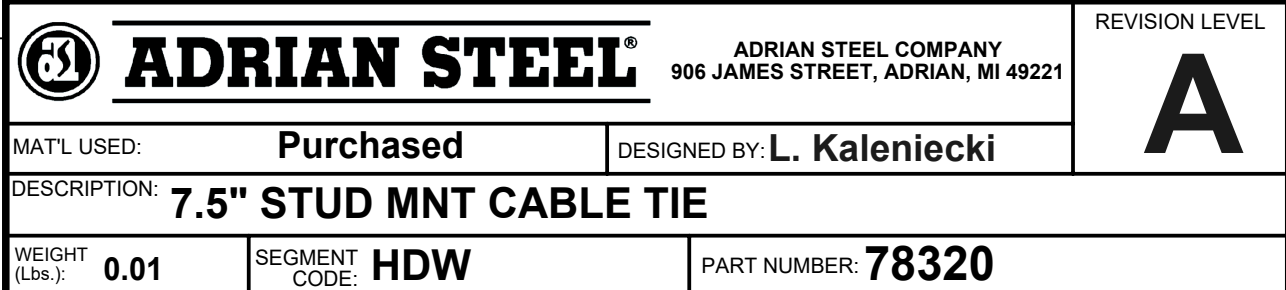
TOLERANCES & INSPECTION

RELEASE & REVISIONS

ECN DESCRIPTION:

PURCHASED COMPONENT

PART / PRODUCT IDENTIFICATION



PURCHASED
COMPONENT
KEY FEATURES

DESCRIPTION OF REQUIREMENTS
DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING) N/A
LOAD/RATING REQUIREMENT N/A
MATERIAL REQUIREMENT N/A
PACKAGING REQUIREMENT N/A
OTHER REQUIREMENTS - Amber LEDs with Clear Lens 21 Flash Patterns - Connectors 4 Blunt Cut Wires 15" 12v, 1.0A



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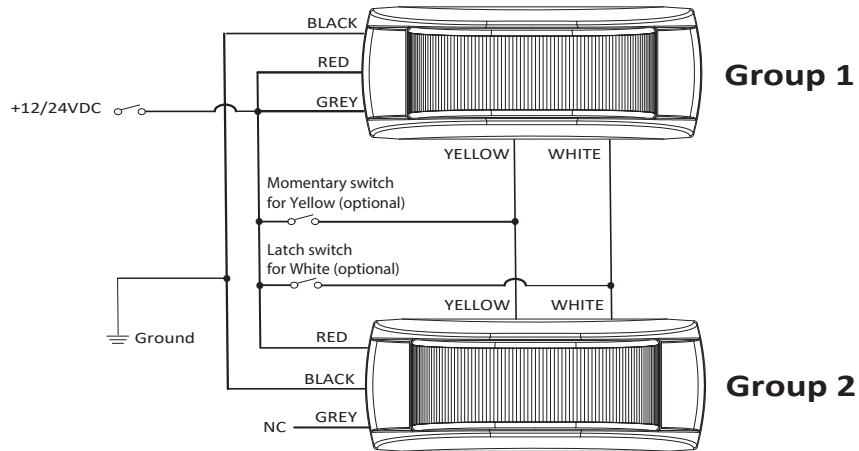
TOLERANCES & INSPECTION			RELEASE & REVISIONS		
UNLESS OTHERWISE SPECIFIED			INITIAL ECN: 28565		
ALL BEND ANGLES ARE 90 DEGREES					
ALL DIMENSIONS ARE IN INCHES.			CURRENT ECN: 28565		
REFERENCE DIMENSIONS (X.XXX) DO NOT REQUIRE INSPECTION			ECN DESCRIPTION:		
			Release for marketfill		
FEATURES	HOLES/SLOTS	ANGLES			
0.0 = ± .125	0.0 = ± .062	0° = ± 2°			
0.00 = ± .062	0.00 = ± .031	0.0° = ± 1°			
0.000 = ± .031	0.000 = ± .015				
Material Thickness: per ASTM Std. Weld Callouts per AWS			REVISED BY: LJK		

PURCHASED COMPONENT
REFERENCED SUPPLIER AND/OR MANUFACTURER MAXXIMA
REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER M20495YCL-DX
COLOR (ONLY LIST IF COLOR SPECIFIC)
COMMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE) (NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.) No

PRINTED DOCUMENT IS UNCONTROLLED			Sheet 1 of 1
PART / PRODUCT IDENTIFICATION			
	ADRIAN STEEL®		ADRIAN STEEL COMPANY 906 JAMES STREET, ADRIAN, MI 49221
	DESIGNED BY: L. Kaleniecki		REVISION LEVEL A
MAT'L USED:	Purchased	DESCRIPTION: AT&T Maxxima M20495YCLX	
WEIGHT (Lbs.):	1.0	SEGMENT CODE: EST	PART NUMBER: 78671

NOTE: Not all patterns support the alternating function. Refer to **Flash Patterns**.

Alternate Flash



Flash Patterns			
Pattern	Pattern Description	SAE Class 1	SAE Class 2
1	Single	140°	180°
2	Double	80°	180°
3	Quad	90°	180°
4	Octo		
5	Single - Half*		
6	Double - Half*		
7	Quad - Half*		
8	Oct - Half*		
9	Twelve - Half		
10	Single - Slow	180°	180°
11	Double - Slow	180°	180°
12	Triple	130°	180°
13	Quad - Slow	90°	180°
14	Octo - Slow		
15	Twelve		
16	Single - Half (Accel)*		
17	Double - Half (Accel)*		
18	SOS*		
19	Steady*		

* = No Alternate Function Available



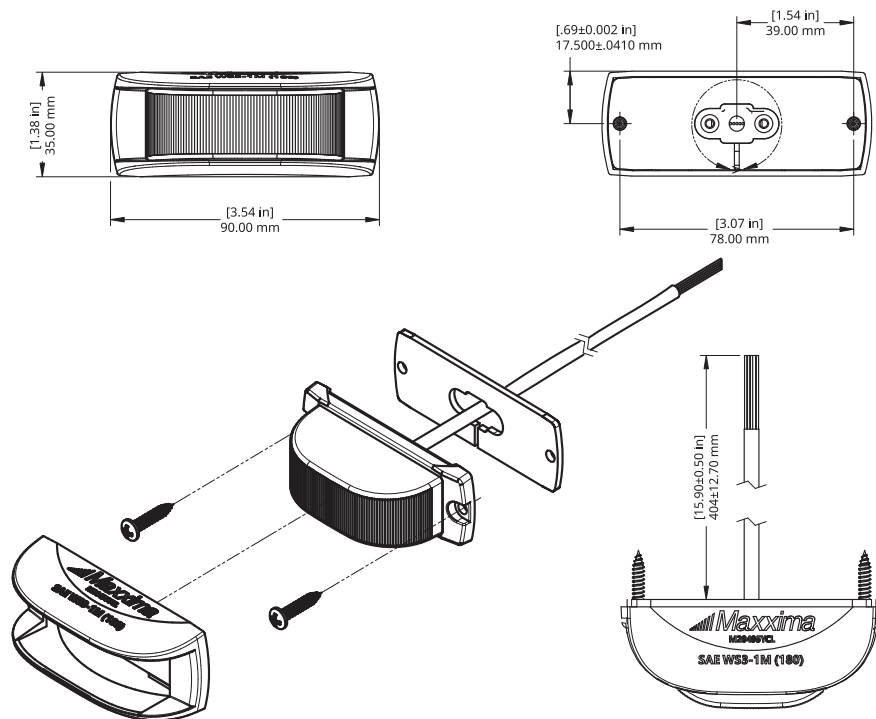
M20495 Warning Light INSTRUCTION MANUAL

Led Color	Amber	Additional Information
Voltage	12V / 24V	
Patterns	19	
SAE	J845 Class 1S, J595 Class 1	
Material	PC Lens, AL Base	
Mount	Adjustable Bracket Included	▶ Amber Color ▶ Includes Memory Function ▶ Available Dim Feature ▶ Available Sync & Alternate Patterns ▶ 5 Year Warranty

CAUTION

- Carefully select the mounting location for the warning light, avoiding areas that may impair visibility or distract the vehicle's operator. Improper placement could obstruct the operator's view or divert their attention, potentially leading to serious accidents.
- For cleaning the outer lens of the warning light, only use a mixture of soap and water. Utilizing other chemicals may lead to premature cracking or discoloration of the lens. Damaged lenses can significantly impede the warning light's functionality. Regularly inspect and operate the warning light to ensure it is working optimally.

MEASUREMENTS



ELECTRICAL WIRING & CONFIGURATION

- Step 1** Connect all Black wire to vehicle Ground (-).
- Step 2** Connect all Red wire to a switch.
- Step 3** Optionally connect all White wires to a switch.
- Step 4** Tie all yellow wires together for synchronous function.
- Step 5** Program the Warning Light to the desired pattern by tying the Yellow wire to (+) for a set number of seconds.

Yellow Wire Functions	
Seconds	Action
0-2	Change Pattern
3-5	Toggle Dim Mode
7+	Change to Factory Default

ELECTRICAL WIRING & CONFIGURATION

Color Wire Polarity Functions			
Wire Color	Polarity		12/24VDC
	Floating	Ground (-)	
Black	■	Ground	■
Red	■	■	Power
White	Normal	Normal	Dim Mode
Grey	Alt - Group B	■	Alt - Group A
Yellow	■	■	Pattern Functions

■ = No Function Available

Dim Mode can be controlled using two different methods:

Option A: Tie yellow wire to 12/24VDC for 3-5 seconds. Again to go back to high intensity.

Option B: Tie white wire to 12/24VDC to dim, disconnect to go back to high intensity.

NOTE: If Dim Mode is enabled using the yellow wire, it can still be disabled by momentarily connecting the white wire to 12/24VDC.

Synchronous Flash

